

Fig. 1

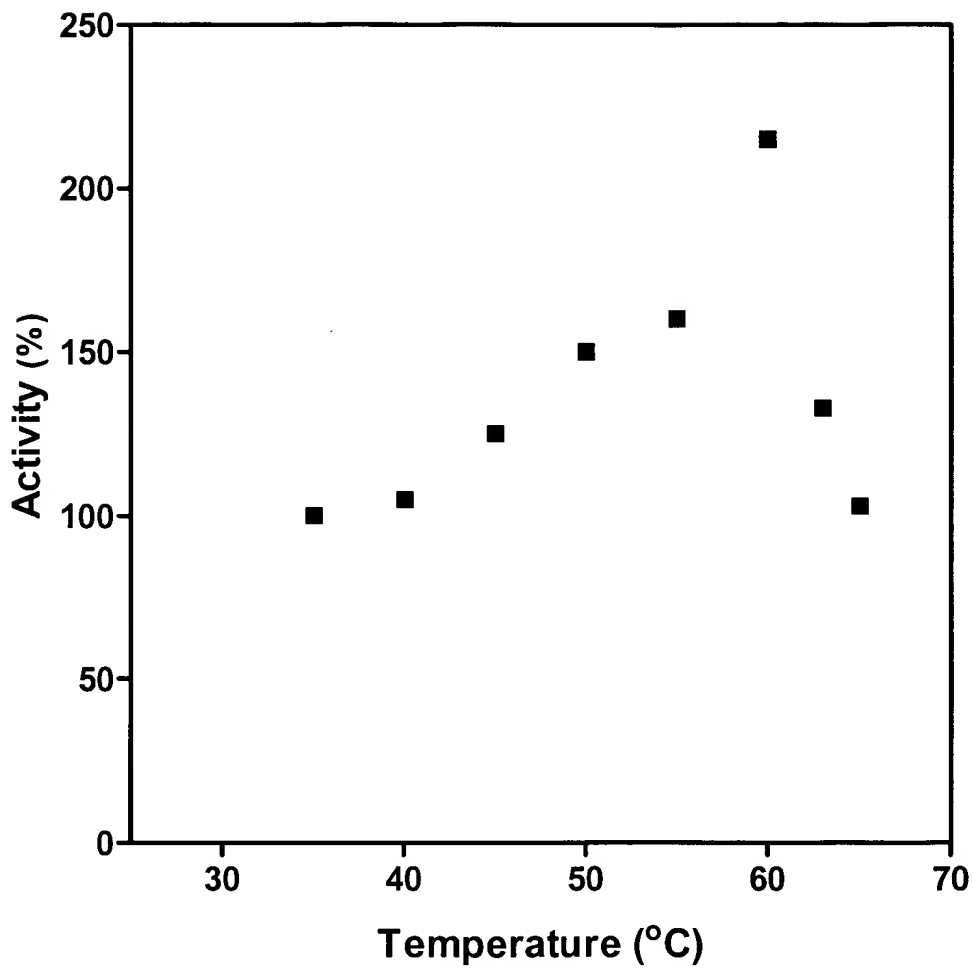
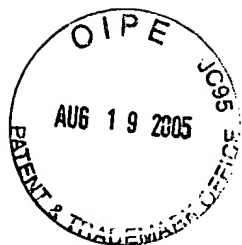


Fig. 2



ATGCGTGGCTACGAATTTCTCTCAGTGCTACCCTTGGTTGCAGCCAGTTGGGCCCTTCCAGGAAGTACAC 70  
M R G Y E F L S V L P L V A A S W A L P G S T  
CGGCGTCCGTCCGTAGAAAGACAGCTACCCAAGAACCCACCGGGTCAAGACTCTTACAACCGCAAACAA 140  
P A S V G R R Q L P K N P T G V K T L T T A N N  
TGTCACCATCCGGTACAAGGAACCCGGGCGAGAGGGCGTCTGCGAGACTACCCCGGGTGTCAAATCCTAC 210  
V T I R Y K E P G A E G V C E T T P G V K S Y  
TCTGGATATGTCGACACCTCTCCCGAGTCCCATACCTTCTTCTGGTTCTTGAAGCCAGACATAACCCAG 280  
S G Y V D T S P E S H T F F W F F E A R H N P  
AAACTGCACCTATCACATTGTGGTTGAATGGTGGCCCTGGAAGCGATTCTTTGATCGGTCTCTTGAAGA 350  
E T A P I T L W L N G G P G S D S L I G L F E E  
GTTGGGCCCTTGCCATGTCAATTGACTTTTGATGACTACATCAACCCTCACTCGTGAACGAGGTCTCC 420  
L G P C H V N S T F D D Y I N P H S W N E V S  
AATTTACTATTCTGTCCCAGCCATTGGGAGTCGGCTTTTCATATAGTGATACGGTTGATGGGTCCATTA 490  
N L L F L S Q P L G V G F S Y S D T V D G S I  
ACCCTGTAACCTGGGGTTCGTAATAATTGAGCTTTGAGGAGTTGAGGGCCGTACCCAACCATTTGATGC 560  
N P V T G V V E N S S F A G V Q G R Y P T I D A  
CACTCTGATCGATACTACCAATCTTGCCGAGAGGCCGCTTGGGAGATCTGCAAGGATTCCTTAGTGGA 630  
T L I D T T N L A A E A A W E I L Q G F L S G  
CTACCTAGCTTGGACTCTAGGGTGCAGTCTAAGGACTTCACTCTATGGACGGAGAGCTATGGAGGGCACT 700  
L P S L D S R V Q S K D F S L W T E S Y G G H  
ATGGTCTGCATTCTTCAATCATTTTTTACGAGCAGAATGAGAGAATTGCCAACGGTAGTGTTAATGGTGT 770  
Y G P A F F N H F Y E Q N E R I A N G S V N G V  
TCAGCTTAATTTCAACTCTCTGGAATTATTAACGGCATCATCGACGAGGCGATCCAGGCCCTTACTAC 840  
Q L N F N S L G I I N G I I D E A I Q A P Y Y  
CCTGAATTCGCTGTGAACAATACCTACGGTATCAAGGCTGTCAACGAGACCGTCTACAACCTACATGAAGT 910  
P E F A V N N T Y G I K A V N E T V Y N Y M K  
TTGCCAACCAAATGCCAAATGGTTGCCAGGATTTGATTTCCACCTGCAAACAGACAAACCGCACCGCATT 980  
F A N Q M P N G C Q D L I S T C K Q T N R T A L  
AGCTGACTACGCCCTCTGCGCCGAAGCCACCAACATGTGACGGACAATGTTGAGGGGCCATACTACGCC 1050  
A D Y A L C A E A T N M C R D N V E G P Y Y A  
TTTGCTGGTTCGTTGGTGTATGATATTCGGCATCCATATGATGACCCGACTCCGCCAAGTTATTACAACA 1120  
F A G R G V Y D I R H P Y D D P T P P S Y N  
AATTTCTGGCAAAGGACTCTGTCTATGGACGCTATCGGCGTCAACATCAACTACACCCAGTCCAATAATGA 1190  
K F L A K D S V M D A I G V N I N Y T Q S N N D  
CGTCTACTACGCTTTCCAGCAAACAGGCGACTTTGTCTGGCCCAACTTCATCGAAGACCTCGAGGAGATC 1260  
V Y Y A F Q Q T G D F V W P N F I E D L E E I  
CTTGCTCTCCCCGTGCGTGTCTCCCTCATCTATGGCGACGCCGATTACATCTGCAACTGGTTTCGGCGGTC 1330  
L A L P V R V S L I Y G D A D Y I C N W F G G  
AGGCCGTTTCCCTCGCTGCGAACTACTCCCAAGCCGCCAGTTCCGAAGCGCAGGGTACACGCCCTGAA 1400  
Q A V S L A A N Y S Q A A Q F R S A G Y T P L K  
AGTCAACGGCGTCGAGTATGGGGAAACTCGCGAGTATGGTAATTTCTCCTTCACTCGCGTCTATGAGGCA 1470  
V N G V E Y G E T R E Y G N F S F T R V Y E A  
GGCCATGAAGTCCCATACTACCAGCCCATCGCCTCCCTGCAATTGTTTAACCGGACTATCTTCGGTTGGG 1540  
G H E V P Y Y Q P I A S L Q L F N R T I F G W  
ATATCGCAGAGGGCCAGAAGAAGATCTGGCCAGCTACAAGACGAATGGAACGGCTACAGCTACGCATAC 1610  
D I A E G Q K K I W P S Y K T N G T A T A T H T  
ACAGTCGTCGGTCCGCTGCGCTACGGCTACCAGCATGTCCAGTGTGGTATGGCATAG 1668  
Q S S V P L P T A T S M S S V G M A .

Fig. 3



A.oryzaeCP1	1	- - - - - MRGYEFLSVLPLVAAS - - - - - WAL
PenicilliumS3	1	- -
PenicilliumS1	1	- -
A.phoenicis	1	- - - - - MRITSAIASLLLVGTATSLQN - - - PHHRAV
A.niger	1	MLFRSLLSTAVLAVSLCTDNASAAKHGRFGQKARD
A.oryzaeCP1	20	PGSTPASVGRRLPKNPTGVKTLTTANNVTIRYKE
PenicilliumS3	1	- - - - - - - - - - - FVKN - - - - - - - - - -
PenicilliumS1	1	- - - - - - - - - - - - - - - - - STKNYRFLNEKTKANLV
A.phoenicis	28	PPPLTHRSVASRAVPVERRSNDFEYLTNKTARFLV
A.niger	36	AMNIAKRSANAVKHSCLKIPVEDYQFLNNKTKPYRV
A.oryzaeCP1	55	PGAEGVCETTPGVKSYSGYVDTSP - - ESHTFFWFF
PenicilliumS3	5	- - - SGICETTPGVNQYSGYLSVGS - - NMNMWFWFF
PenicilliumS1	18	H - - HLPDVPYDIGEMYSGLMPIDMHNESRALFYIF
A.phoenicis	63	NGTSIPEVDFDVGESYAGLLPNTPTGNSSLFFWFF
A.niger	71	E - - SLPDVHFDLGEYSGLVPIEKGNVSRSLFFVF
A.oryzaeCP1	88	EARHNPETAPITLWLNNGGPGSDSLIGLFEELGPCH
PenicilliumS3	35	EARNNPQQAPLAAWFNNGGPGCSSMIGLFQENGPCH
PenicilliumS1	51	QPTIGEPVDEVTIWMNNGGPGCSSMESFLQETGRFL
A.phoenicis	98	PSQNPDASDEITIWLNNGGPGCSSLDGLLQENGPFL
A.niger	104	QPTIGEPVDEITIWLNNGGPGCSSLEAFLQENGRFV
A.oryzaeCP1	123	- VNSTFDDYINPHSWNEVSNNLLFLSQPLGVGFSSYS
PenicilliumS3	70	FVNGDSTPSLNNENSWNNYANMIYIDQPIGVGFSSYG
PenicilliumS1	86	WQPGTYAPVENPYSWVLTNVVLWVDQPVGTGYSIG
A.phoenicis	133	WQPGTYKPVNPNYSWTNLTNVVYIDQPAAGTGFS PG
A.niger	139	WQPGTYQPVENPNYSWVNLTNVLWVDQPVGTGFS LG
A.oryzaeCP1	157	DTV DGSINPVTGVVENSSFAGVQGRYPTIDATLID
PenicilliumS3	105	- - TDDVTSTVT - - - - - - - - - - - - - -
PenicilliumS1	121	TPTATSQ - - - - - - - - - - - - - - - -
A.phoenicis	168	PSTVNDE - - - - - - - - - - - - - - - -
A.niger	174	VPTATSE - - - - - - - - - - - - - - - -
A.oryzaeCP1	192	TTNLAAEAWEILQGFFLSGLPSLDSRVQSKDFS LW
PenicilliumS3	114	- - - - AAPYVWNL LQAF FYAQRPEYES - - - - RDFAIF
PenicilliumS1	128	- - - - - EETAQDFVKFFKNFQKTYGIKN - - FK IYVT
A.phoenicis	175	- - - - - EDVAAQFNSWFKHFVDTFDLHG - - RKVYIT
A.niger	181	- - - - - EEIAEDFVKFFKNWQQIFGIKN - - FK IYVT
A.oryzaeCP1	227	TESYGGHYGP AFFNH FYEQNERIANGSVN GVQLNF
PenicilliumS3	141	TESYGGHYGPEFASYIEQQNAAIKAGSVT GQNVNI
PenicilliumS1	156	GESYAGRYVPYISAAMLDEKD - KEYFDLQ GALAYD
A.phoenicis	203	GESYAGMYVPYIADAMLNEED - TTYFNLKGIQIND
A.niger	209	GESYAGRYVPYISAAFLDQND - TEHFNLK GALAYD
A.oryzaeCP1	262	NSLGIINGIIDEA IQAPYYPE - - - FAVNNNTYGIK
PenicilliumS3	176	VALGVNNGWIDSTIQEKAYID - - - FSYNNNSYQQI
PenicilliumS1	190	PCIGQFDYVQEEIPVVPFVKENANL FNFNFETFMAE
A.phoenicis	237	PSINS - DSVMYSPAVRHLNHYNNI FRLNSTFLSY
A.niger	243	PCIGQFDYVQEEAPVVPFVQKNNAL FNFNFASFLAE

Fig. 4A

A.oryzaeCP1	293	AVNETVYN - - - YMKFANQMPNGCQDLISTCKQTN
PenicilliumS3	207	IDSSTRDS - - - LLDAYN - - - NQCLPALQQCSQSG
PenicilliumS1	225	LEHLHKSCGYADFIDKYLTFPPPK EQPPLFFNYTS
A.phoenicis	271	INGKADKCGYNAFLDKAITYP PP - - - TPFPTAPEI
A.niger	278	LES IHEQC GYKDFIDQYLVFPASGVQPPKAMNWS D
A.oryzaeCP1	324	RTALADYALCAEATNMCRDNVEGPYYAFAGRGVYD
PenicilliumS3	235	STS - - - - DCTNADSVCYQNI EGPISSSGDFDVYD
PenicilliumS1	260	MANEDVFD MVYNEVF KINPCFDLYEVNLMCPLQWD
A.phoenicis	303	TEDCQVWDEVVMAAYDINPCFNYYHLIDFCPYLWD
A.niger	313	PT - CDVYDIVNNAVLDPNPCFNPYEINEMCPI LWD
A.oryzaeCP1	359	IR - H P YDDPTPPSYYNKFLAKDS VMDAIGVN - INY
PenicilliumS3	265	IR - E P SNDPYPPKTYSTYLS DPT VVKAIGAR - TNY
PenicilliumS1	295	VLA F P TSLVYQPAGATVYFDRAD VKKALHAPNVTW
A.phoenicis	338	VLGF P S - - - LGFGPDNYFN RSD VQKILHVPPTDY
A.niger	347	VLGF P TEVDYLPAGAS IYFDRAD V KRAMHAPNITW
A.oryzaeCP1	392	TQSNNDVYYAFQQTG - - - - D FVWPNFIED LEEIL
PenicilliumS3	298	QECPNGPYNKFASTG - - - - D NPRS - FLST LSSVV
PenicilliumS1	330	AECSN NPVFVGGSSGPEQEGD TSANPIEHV L PQVI
A.phoenicis	369	SVCSETVIFANGDGS - - - - D PSS - - WGPL PPSVI
A.niger	382	SECSVESVFVGGDGGPEQEGD YSANPIEHV L PQVI
A.oryzaeCP1	422	ALPVRVSLIY G D A D Y I C N W F G G Q A V S L A A N Y S Q A A
PenicilliumS3	327	QSGINVLVWAG D A D W I C N W L G N Y E V A N A V D F P G N A
PenicilliumS1	365	EATNRVLISN G D F D M V I L T N G T L L A I Q N M T W N G H L
A.phoenicis	396	ERTNNTIIGH G W L D Y L L F L N G S L A T I Q N M T W N G K Q
A.niger	417	EGTNRVLIGN G D Y D M V I L T N G T L L S I Q N M T W N G K L
A.oryzaeCP1	457	Q F R S A G Y T P L K V N G V E Y G E T R E Y G N F S F T R V Y E A G
PenicilliumS3	362	Q F S A L D L A P Y T V N G V E K G Q F K T V D N F S F L K V Y G A G
PenicilliumS1	400	G F Q K K P S A P I D I K I P D L Q Y K E V F A E N - G A S S L D G A
A.phoenicis	431	G F Q S P P V E P L F V P Y H Y G L A E L Y W G D E P D P Y N L D A G
A.niger	452	G F D T A P S T P I N I D I P D L M Y N E V F I E N - G Y D - P Q G G
A.oryzaeCP1	492	HEVPYYQPIASLQLFNRTIFGWDIAEGQKKIWPSY
PenicilliumS3	397	HEVPYYQPD TALQAFKQIIQ - - - - - KKPISSST -
PenicilliumS1	434	QGIMGVQHYERGLMKAQTYQSG - - - - HMQPQYQP -
A.phoenicis	466	AGYLGTAHTERGLTFSSVYLSG - - - - HEIPQYVPG
A.niger	485	QGVMIQHYERGLMWAETFQSG - - - - HMQPQFQP -
A.oryzaeCP1	527	KTNGTATATH TQSSVPLPTATSMSSVGMA
PenicilliumS3	0	- - - - -
PenicilliumS1	464	- - - - - RVAYRHLEWLLKRTDELQ - - - -
A.phoenicis	497	ALTASWSSCLVELIVFPRRGTTPLNFS - -
A.niger	515	- - - - - RVSYRHLEWLLGRRDTL - - - -

Fig. 4B

